GILYAROVSKIY, V.A., zasl. deyatel' nauki, red.; FEDOTOV, D.D., red.; SLYUSAREV, F.M., kand. med. nauk, red.; RIKHTER, G.E., kand. med. nauk, red.; FEL'DMAN, E.A., kand. med. nauk, red.

[Transactions of the Scientific and Practical Conference of Neuropathologists and Psychiatrists of the Baltic Republics] Trudy Nauchno-prakticheskoi konferentsii nevropatologov i psikhiatrov Pribaltiiskikh respublik. Riga, M-vo zdravookhraneniia Latviiskoi SSR, 1956. 466 p. (MIRA 17:5)

1. Nauchno-prakticheskaya konferentsiya nevropatologov i psikhiatrov Pribaltiyskikh respublik, 1954. 2. Deystvitel'nyy chlen AMN SSSR (for Gilyarovskiy). 3. Direktor Instituta psikhiatrii Ministerstva zdravookhraneniya SSSR (for Fedotov).

SLYUSAREV, F.M.

Tick-borne diphasic meningoencephalitis in Transcarpathia. Vrach.delo no.10:111-112 0 60. (MIRA 13:11)

1. Klinika nevrologii meditsinskogo fakul'teta Uzhgorodskogo universiteta.

(TRANSCARPATHIA -- ENCEPHALITIS) (TICKS AS CARRIERS OF DISEASE)

Sizumana V. P.F., VASHO, Ye.M.

Strationting hypoglypemia paroxysms following the removal of a fanoreatic adenoma. Vrach. delo no.3:124-125 Mr '64.

(MIRA 17:4)

1. Meditsinskiy sakulitet Uzhgorodskogo universiteta.

SLYUSAREV, F.M.; MAT'KOVSKIY, E.1.

Diagnostic significance of the permanganate reduction test in neurological practice. Zhur. nevr. i psikh. 64 no.6:833-836 '64. (MIRA 17:12)

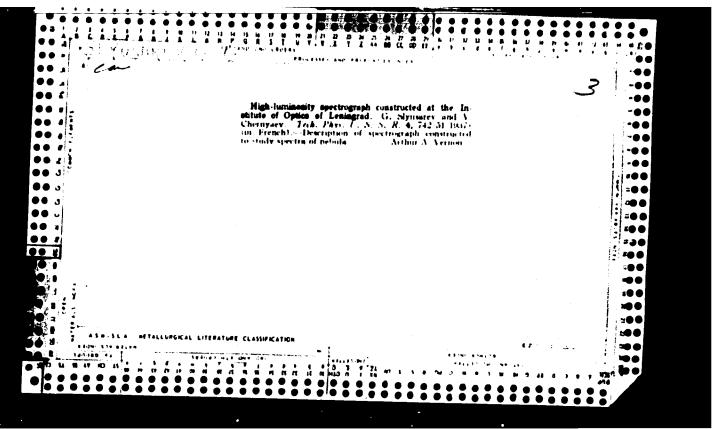
1. Klinika nevrologii Uzhgorodskogo universiteta i Perechinskaya rayonnaya bol'nitsa Zakarpatskoy oblasti.

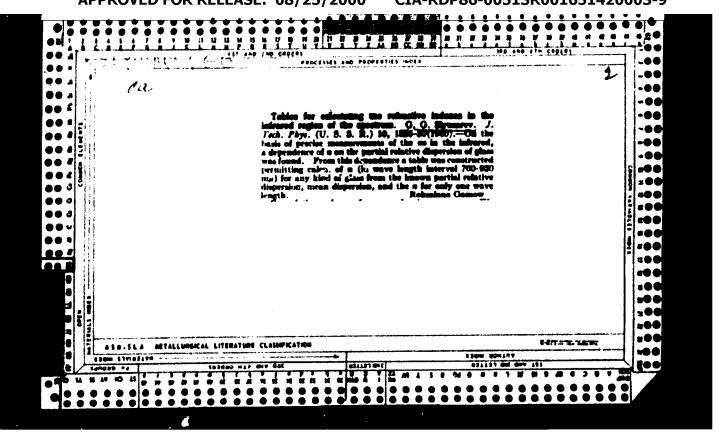
SLYUSAREY, F.M.

Content of nicotinic acid and its derivatives in blood, urine and cere rospinal fluid of patients with lesions of the nervous system. Zhur.nevr. i paikh. 66 no.1:57-60 166.

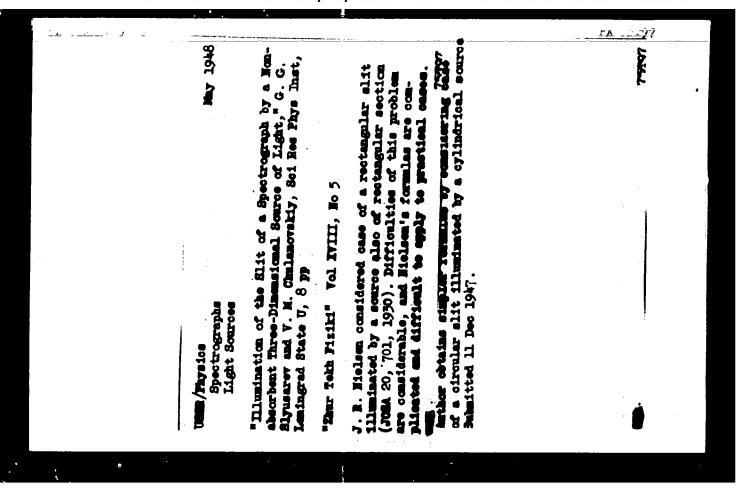
(MIRA 19:1)

1. Klinika nevrologii Uzhgorodskogo universiteta. Submitted August 1, 1964.





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DESCARTES, René, 1596-1650 [author]; SLYUSAREV, C.C., perevodchik i kommentator; YUSHKEVICH, A.P., perevodchik i Kommentator.

[Discourse on Method with his Dioptrics, Meteors and Geometry] Rassushdenie o metode o prilosheniami dioptrika, meteory, geometriia. Red., perevod, stat'i i kommentarii G.G.Sliusareva i A.P. IUshkevicha. [Leningrad] Isd-vo Akademii nauk SSSR, 1953. 656 p. (MLMA 6:7)

(Science—Methodology)

MICHEL, K; LEYKIN, M.V.[translator]; SLYUSAREV, G.G., professor, redaktor; GRIGOROVA, B.A., redaktor; AKHLANOV, S.N., tekhnicheskiy redaktor; 'MURASHOVA, N.Ya., tekhnicheskiy redaktor.

[Fundamentals of the theory of the microscope. Translated from the German] Osnovy teorii mikroskopa. Perevod s nemetskogo M.V.Leikina. Pod red. G.G. Sliusareva. Moskva. Gos.isd-vo tekhnikoteoret. lit-ry, 1955. 276 p. (MLRA 9:1) (Microscope)

657

THATE I BOOK EXPLOITATION

Olymenter, Georgiy Georgiyevich

- O vormowhnom i nevozmowhnom v optike (The Possible and Impossible in Optics) 2nd ed., rev. Moscow, Gostekhizdat, 1957. 178 p. 12,000 copies printed.
- Ed.: Orlowa, F. 1.; Tech. Ed.: Volchok, K. M.

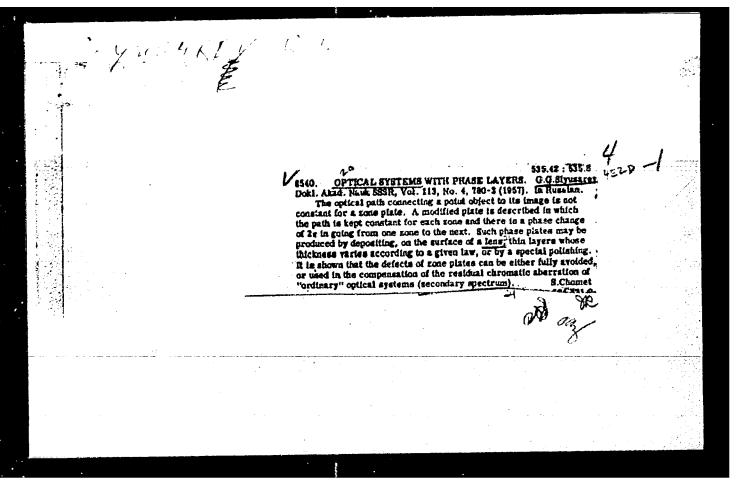
FIRMORE: This book is intended for students and specialists in the field of optics.

COTAMAR: The author describes what is possible and what is impossible in optical instruments. He covers certain misconceptions previously associated with optics. The basic concepts of light energy are given along with the theory behind light austtering. He discusses optical instruments, photographic objectives, reversibility and irreversibility in optics, resolution limits and the resolving power of optical systems, aberrations, phase, amplitude, and the theory of image formation. Prospects are given for the future of optics. This second edition of the book was reviewed by G. S. Landsberg. There are no references.

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The Possible and Impossible in Optics 657	
5. Photographic objective with an aperture ratio greater than 1:0.5. 6. Converting scattered light to directed light 7. The flow of light through a narrow aperture 8. "Fire hazard" from optical parts and glassware 9. "Intensification" of illumination	46 47 51 53 58
Ch. III. Reversibility and Irreversibility in Optics 1. What is "reversibility" in optics? 2. What optical phenomena are irreversible? 3. An example of incorrect application of the principle of reversible path	61 63 68
Ch. IV. Resolution Limit of Optical Systems (Microscopes and Telescopes) 1. General considerations 2. Microstructure of the image given by the optical system 3. Resolving power of optical systems 4. Optimum magnification of optical systems 5. Certain errors committed by people using microscopes 6. What can be seen with the aid of modern optical instruments Card 3/4	72 72 77 89 94 99 109

112 114 systems due to aberrations 123 129 134
systems due to aberrations 123 129 134
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of image formation 141
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emount of information 165
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Sov/51-4-4-9/24 Slyusarev, G.G. and Kulikovskaya, B.I.

AUTHORS:

the Distribution of Light Energy in a Difficaction Image by Means of Filters of Variable Transparency (Izmeneniye raspredeleniya svetovoy energii v

difractsionnom izchrazbenii posredstvom filtrov peremennoy

hrowiachnosti)

Optika i Spectroskopiya, 1958, Vol IV, Nr 4, PERIODICAL: pp 486-493 (USSR).

Distribution of light energy in the image of a luminous point or line produced by an aberration-free optical system is ABSTRACT: determined by diffraction of light and depends on the geometrical form of the entirace pupil. Thus, an image of a point produced by an objective of circular shape consists of a central circle of light surrounded alternately by dark and bright rings. If in the clane of the pupil an absorbing filter with a confection filter, with a coefficient of transmission which varies from point to point is placed, it is possible to weaken the secondary maxima represented by bright rings surrounding the central spot (the process is known as "apodization"). Alternately, such a filter could be used to decrease the diameter of the central spot or the width of a central band (for a Cardl/3 rectangular entrance pupil). In both cases an increase in the

TITLE:

Sov/51-4-4-9/24 Change in the Distribution of Light Energy in a Diffraction Image by Means of Filters of Variable Transparency

resolving power would be obtained. The authors give a short historical review of the work on such absorption filters. Calculations carried out by the authors themselves confirm that it is not possible to decrease simultaneously the size of the central maximum and to reduce the secondary maxima. Only one of these aims can be achieved at a time and then only at the expense of the other. It was found that a complex absorption filter would be necessary to produce a wide dark area around the central diffraction maximum. To remove the first two secondary maxima, which is all that is often required, a comparatively simple absorption filter can be used. Such a filter consists of 10 parts (bands or rings) of transparency, which varies from part to part and all parts are equal in area. The method of calculation of such filters

Uard 2/3

Sov/51-4-4-9/24

Change in the Distribution of Light Energy in a Diffraction Image by Means of Filters of variable Transparency

is given in the paper, together with the results obtained with various specific filters (see Figures 3, 7, 8). There are 8 figures and 20 references, 15 of which are French, 4 in English and 1 Dutch.

ASSOCIATION:

Gosudarstvenryy opticheskiy institut imeni S.I. Vavilova (State Optical Institute imeni

S.I. Vavilov)

SUBMITTED:

June 21, 1957

1. Optical filters--Design

Card 3/3

RUSINOV, Mikhail Mikhaylovich. Prinimal uchastiye SLYUSAREV, G.G., prof., doktor fiziko-matem.nauk. YAKHONTOV, Ye.G., red.; VASIL'YEVA, V.I., red.izd-va; BOTVINKO, M.V., tekhn.red.

[Dimensional calculation of optical systems] Gabaritnyi raschet opticheskikh sistem. Izd-vo geodez.lit-ry, 1959. 257 p.
(MIRA 13:4)

(Optics, Geometrical)

UK7/51-1-8-13/39 igusarev, 3.3. ACPER: Temperature Gradient in Glass on the Image Produced by an TITLE: offical Systom (Vliyaniye temperaturnogo gradiyenta stokla otichoskikh sistem na izobrazheniye, davayenoye poslednimi) property of the image of the property of the second section of the section effect of temperature variations on quality of images produced by ABOTRACT: tical systems was recently studied both theoretically and Laborimentally. Among theoretical works there were papers by Gagor (Ref 1), Sonnefeld (Ref 2), Maksutov (Ref 3), Perry (Ref 4) and . losev (Ref 5). There rekers considered the effect of temperature wrintions on the course one of the image of a point-object assuming unat at any particular moment the temperature of all the elements of an ostical system (both glass and supports) is the same. Theoretical ordenlations reported were made for the paraxial region employing the autions similar to those used in treatments of chromatic aberrations of cosition and magnification. For a two-lens objective Maksutov derived a formula which gives changes in the position of the focus caused by was rature variations. Volosov (Ref 5) continued Perry's work and and should a number of objectives corrected for themso-optical aberrations. . . resent paper differs from earlier work in its consideration of Dirt in

SOV/51-6-2-13/39

Effect of a Temperature Gradient in Glass on the Image Produced by an Optical System

temperature gradients inside optical apparatus. The author discusses the effect of a non-uniform distribution of temperature in optical apparatus on the images obtained. The effect of temperature gradients on the form of lens surfaces is considered, as well as the effect of the refractive index gradient produced by non-uniformity of temperature. A special case of symmetric distribution of the temperature gradient about the optical axis is dealt with. The paper is entirely theoretical. There are 5 figures and 6 references, 3 of which are Soviet, 2 German and 1 English.

SUBMITTED: March 4, 1958

Jard 2/2

L 31499-66 EWT(1) ACC NR: AP6013030

SOURCE CODE: UR/0051/66/020/CO4/0716/0723

AUTICR: Slyusarev. G. G.

51

ORG: none

45

TITLE: Calculation of a frequency contrast characteristic

SOURCE: Optika i spektroskopiya, v. 20, no. 4, 1966, 716-723

TOPIC TAGS: optic system, optic image, Fourier transform, light theory, light diffraction, light aberration, chromatic aberration, Mannatic optics

ABSTRACT: The author presents a method of calculating the transfer function of an optical system, defined as the suitably-normalized Fourier transform of the distribution of the illumination in the image of a point, produced by the optical system. The calculation is made with account of diffraction. Unlike calculations by others, the spherical wave front is not approximated by a plane, so that systems with a high degree of correction, including those corrected for spherical and chromatic aberration and for coma, with aberrations smaller than several wavelengths of light, can be handled by this method. The calculation is standard, but is presented in a form suitable for programming with an electronic computer. The procedure was checked by means of a calculation of the transfer function of a

Card 1/2

VDC: 535.317.25

SLYUSAREV, G.M.; VASIL'YEV, G.P.

Automatic control of a water-pump station. Mashinostroitel'
no.12:12 D '61.
(Pumping machinery)
(Automation)

SLYUSAREV, M. G.

Tree Planting

Flow of acrons from a seed box opening. Les. khoz. 5 no. 3(42), 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

- 1. JLYUSARWY, M.G.
- 2. USSR (600)
- 4. Orill (Agricultural Implement)
- 7. Using the SLCh-1 machine for sowing acorns, Les.khoz. 6 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

SLYUJALLE, M. U.

"A Study of Certain Physicomechanical Froperties of the Oak and the Technological Process of Its Planting." Cand Agr Sci, Voronezh Forestry Inst, Min Higher Education USSR, Voronezh, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum. No. 598, 29 Jul 55

L 57474-65 EWT(1)/EWP(m)/EPA(s)-2/EHT(m)/EHA(d)/EMP(t)/FCS(k)/EMP(b)/EHA(1) Fd-ACCESSION NR: APSO14173 Pt-7 IJP(c) UR/0382/65/000/001/0033/0036

538.4:532.542.4

AUTHOR: Branover, G. G.; Slyusarev, N. H.; Shcherbinin, E. V.

TITLE: Results of turbulent velocity fluctuation measurements in mercury stream in presence of transverse magnetic field

SOURCE: Magnitnaya gidrodinamika, no. 1, 1965, 33-36

TOPIC TAGS: magnetohydrodynamics, turbulent flow, Reynolds number

ABSTRACT: The purpose of the study was to determine experimentally the predicted suppression of turbulence in mercury flow when a magnetic field is applied across the stream and to confirm effect of the field on the flow velocity profile. The experiments were performed with Reynolds number ranging from 0 to 3,800 and Hartman's number ranging from 0 to 140. Turbulence and flow profile data were obtained using a specially constructed probe sensitive to dynamic pressures. Turbulence suppression was indicated by decrease in amplitude of velocity fluctuations as the magnetic field increased. Insufficient data precluded determination of dependence of the frequency fluctuations on magnetic field. Orig. art. has: 4 figures.

Card 1/2

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BRANOVER, G.G., SLYUSAREV, M.M.; SHCHERBINIY, C.V.

Some results of measuring pulsations in the rate of a turbulent mercury flow in the presence of a transverse magnetic flow.

Mag. gidr. no.1:33-36 *65. (MIRA 18:5)

82731 \$/089/60/009/002/002/015 B006/B056

21.1920

AUTHORS:

Slyusarev. P. N., Ushakov. G. N., Starkov. O. V., Kochetkov, L. A., Nesterova, L. N., Kozlov. V. Ys.

TITLE:

Investigation of the Transfer of Radioactive Substances by Steam and Water and the Chemical Stability of Deposits in the Steam - Water Cycle of the First Atomic Power Plant

PERIODICAL:

Atomnaya energiya, 1960, Vol. 9, No. 2, pp. 98-103

TEXT; The quantity of radioactive substances carried along in boilingwater reactors by steam and water, their depositing on the inner surfaces of conduction pipes, as well as the chemical nature and the behavior of these deposits depends essentially on the mode of operation of the reactor and the construction of the evaporators and separators. In the plants of the Pervaya atomnaya elektrostantsiya (First Atomic Power Plant), the authors investigated the processes in which radioactive substances are carried along by steam and water. They determined the depositing coefficient of the substances on the inner surfaces of the conduction pipes and investigated the chemical stability of these deposits. They further

Card 1/4

Investigation of the Transfer of Radioactive Substances by Steam and Water and the Chemical Stability of Deposits in the Steam - Water Cycle of the First Atomic Power Plant 82731 S/089/60/009/002/002/015 B006/B056

investigated problems of the deactivation of some parts of the steam-power equipment of the plant. The steam-water loop consists of two circuits of stainless steel of the grade 1 X 18 H 9T (1Kh18N9T), which are insulated against each other. Fig. 1 schematically shows the investigated loop; Table 1 gives data on the two circuits. The coolant used was ordinary distilled water which was kept in circulation by means of pumps. The investigations were carried out with superheated and non-superheated steam; water temperatures, in the first case, amounted to 275°C at the input, and 340-365°C at the output; in the second case they were 265° and 310°C, respectively (with a 25% steam content). The places where samples were taken are given in Fig. 1; the β - and y-activity was measured on all coolant samples, and the quantity of the dry residue, the pH-value, as well as the radioisotopic, anionic, and cationic components of the contamination were determined. The transfer of radioactive substances was determined from the change in radioactivity of the dry residue along the loop. Table 2 gives a multiple of numerical values of the radioactivity of the dry residue of the coolant determined at various places in circuit II. The Card 2/4

82731

Investigation of the Transfer of Radioactive Substances by Steam and Water and the Chemical Stability of Deposits in the Steam - Water Cycle of the First Atomic Power Plant S/089/60/009/002/002/015 B006/B056

Na²⁴, Cu⁶⁴, Mn⁵⁶, Ni⁶⁵, and Si³¹ ($T_{1/2} \le 13$ hours) (30%). Finally, a report is given on deactivation experiments undertaken with various aggressive solutions with and without inhibitors. A 6% HCl + Urotropin and a 5% HNO₃ + 2% HCl + K_2 Cr₂O₇ solution (\sim 0.05 g/l) were used as solutions with inhibitors, and a 5% HNO₃ and a 5-7% HCl solution as solutions without inhibitors. The experiments were carried out at 20°C for 24 to 48 hours and at 40-60°C for 2 to 4 hours. The results obtained are described in detail. The authors thank A. K. Krasin for his interest in this investigation. There are 2 figures, 5 tables, and 6 references: 4 Soviet and 2 US.

SUBMITTED: Novemb

November 23, 1959

Card 4/4

USHAKOV, S.N., KOCHETKOV, L.A., KONGCHKIN, V.G., SEVER YANGV, V.S., KOZLOV, V.Ya., SUDNITSYN, O.A., BELINSKAYA, N.T., SLYUSAREV, P.N., IVANOV, V.A.

Exploitation of the First Atomic Power Station as an experimental plant. Atom. energ. 17 no.5:359-366 N '64. (MIRA 17:12)

21(9) 807/89-6-6-4/27

AUTHORS: Slyusarev, P. N., Ivanov, V. A., Nesterova, L. N.

TITLE: Investigation of the Contaminants in the Water Coolant of the First Nuclear Power Plant (Issledovaniye zagryazneniy vodnogo

teplonositelya Pervoy atomnoy elektrostantsii)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 6, pp 639 - 643 (USSR)

ABSTRACT: The contaminants in the water coolant originate, from impurities from the feed water and from such caused by the surfaces of the pipes and parts of the primary circuit. As was found in the investigation in the first nuclear power plant the impurities from the primary circuit predominate by far. Iron, chromium, nickel, manganese, and other elements which occur as corrosion products of steel were found in the composition of the deposit salts. The authors investigated the reasons of corrosion of the constructional materials of the primary circuit and that of the elution of particles and. determined the chemical composition of the solid contaminants in the coolant. The steel 1Kh18N9T used in the First Nuclear

Power Plant is investigated. First, the elution rate of the Card 1/3 corrosion products is determined. The results are shown by

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APPROVED FOR RELEASE: 08/25/2000

Investigation of the Contaminants in the Water Coolant 50V/89-6-6-4/27 of the First Nuclear Power Plant

figure 1; in the case of a constant reactor power the elution increases linearly with the passage rate in the primary circuit. In the feed water and in the water of the first circuit the concentrations of the Cl'-, $S0_4^{"}$ -, $N0_3^{"}$ -, and $Cr0_4^{"}$ -ions and those of the dry radicals were determined. The results are listed in table 1 (pH between 5.55 and 6.35). In table 3 the pH values are measured and computed comparatively at different NO; -concentrations; the values computed are lower. Figure 2 shows that the elution rate increases weakly linearly with increasing reactor power; the investigations were carried out at passage rates of 4.8, 12, 50 and 71.3 m3/24 hours. An investigation of the chemical nature of the contaminants in the water coolant of the first circuit (spectroscopic-chemical-analytical and radiochemical investigation) proved the presence of the following elements: sodium, calcium, magnesium, aluminum, iron, copper, nickel, cobalt, chromium, manganese, and silicon. Fe, Cr, Ni, Co and Mn originated from the circuit material. The total- β -activity of the impurities was determined to be 5.10^{-5} C/l. By radiochemical analysis six different radioactive components were found with the following

/Card 2/3

Investigation of the Contaminants in the Water Coclant SOV/89-6-6-4/27 of the First Nuclear Power Plant

mean half lives: 2.5 and 5 h, 26.5, 42 and > 100 d, as well as ~ 5 a. In the cationite filtrate 3 radioactive components (2.5 h, 26.5 and 42 d) in the anionite filtrate one (42 d) were found. Further details of radiochemical analysis are given, the dialysis is briefly discussed (application of a three-chamber electrodialyzer with colloidal membrane), and some results of ultrafiltrate analysis are given. It was found that Na, Ca. Mn, Ni, Co, Cr and Si occur in the form of ions and Fe and Cu as colloids. In conclusion, the authors thank A. K. Krasin for his interest, V. V. Fomin for consultation, G. N. Ushakov and his collaborators of the First Nuclear Power Plant for assistance. There are 2 figures, 3 tables, and 7 references, 2 of which are Soviet.

SUBMITTED: September 4, 1958

Card 3/3

SLYLISAREV, P.A.

1 16/32/65 847(m)/81F(n)-2/T/EPA(bb)-2 Pu-4 SSD/AFWL DM ACCESSION NR: AP4049536 S/0089/64/017/005/0359/0366

AUTHORS: Ushakov, G. N.; Kochetkov, L. A.; Konochkin, V. G.; Sever'yanov, V. S.; Kozlov, V. Ya.; Sudnitsy*n, O. A.; Belinskaya, N. T.; Slyusarev, P. N.; Ivanov, V. A.; Schotter: Atomnaya energiya, v. 17, no. 5, 1964, 359-366

TITLE: Operating experience with the first atomic electric station as an experimental installation

TOPIC TAGS: research reactor, reactor theory, reactor operation

ABSTRACT: Different experimental loops added to the f.rst atomic energy station for research purposes are described. These include the following: 1) double-passage steam superheating loop; 2) water loop with natural circulation; 3) water loop for water-chemistry research; 4) high pressure water loop; 5) loops for organic-liquid research (with high and low melting temperatures). Each of the loops is briefly described. Other phases of the research are tests of the behavior of the graphite core at high temperatures, operating

Cord 1/2

L 16282-65 ACCESSION NR: AP4049536

tests on various channels and fuel elements of tubular construction, investigations of the radioanalysis of water and superheated steam, investigation of deposition of radioactive impurities from the superheated steam on the turbine blades. Some of the brief reports are accompanied by tables showing the variation of the operating conditions of various sections of the reactor with time. Orig. art. has: 3 tables and 2 figures.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 000

OTHER: 000

Cord 2/2

L 24211-65 ACCESSION NR: AP5001266			
blocks each of which was assembled a placed on four self-propelled flatcars quired for the installation; the only l protection. The results with a demonstrate the demonstrate of the control of the cont	s on caterpillar tracks, local preparation neede nstration model show a ted and actually obtains	No housing is re- d is the radiation satisfactory agree-	
ASSOCIATION: None			
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USSR/Astronomy - Bibliography Dissertations

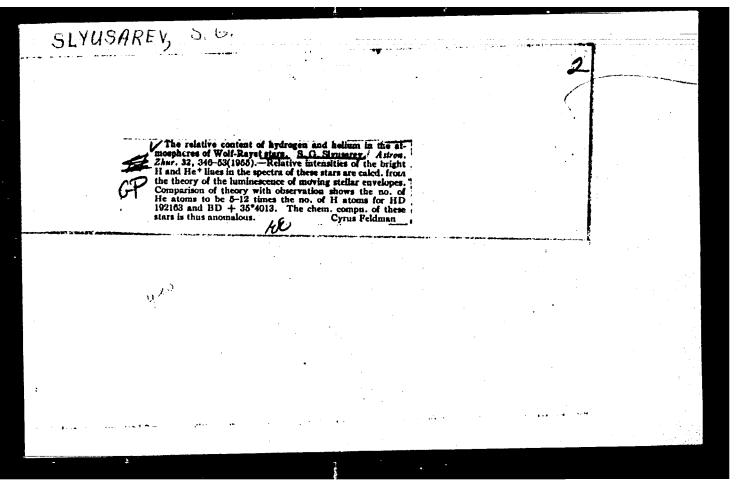
Sep/Oct 53

"Bibliography. Index to Astronomical Literature Published in the USSR in May/June 1953."
Yu. G. Perel'

Astron Zhur, Vol 30, No 5, pp 572-576

Liste 7 monographs (books, brochures, symposia), 3 ephemerides, 9 'Trudy' (Works) of institutions, 34 articles from 10 periodicals, 9 articles from 7 dailies and gazettes, 2 bibliographies, and 4 author abstracts of dissertations. The 4 dissertations are: 1. M. P. Kazachevskiy, Cand Phys-Eath Sci, "Photometric Determination of the Reflectivity of the Terrestrial Globe," Alma-Ata, 1953, 8pp, 120 copies, Acad Sci Kazakh SSR, Astrophys Inst. 2. S. G. Slyusarev, Cand Phys-Eath Sci, "Wolf-Rayet Stars," Leningrad, 1953, 8pp, 100 copies, Leningrad U im Zhdanov. 3. P. N. Kholopov, Cand Phys-Eath Sci, "Structure of Globular Stellar Clusters," Moscow, 1953, 8pp, 110 copies, Moscow State U, Astron Inst im Shternberg. 4. A. I. Kochetkov, Cand Tech Sci, "Development of a New System of Spherical Coordinates and formulas for the Computation of Astronomical Observations," Moscow, 1953, 100 copies, Moscow Inst of Engineers of Geodesy, Aerial Photography, and Cartography.

264176



5/169/62/000/074/031/103 D228/D302

3,5150

PERIODICAL:

Slyusarev, S. G.

AUTHOR: TITLE:

Radiation field in the deep layers of a turbid medium

Referativnyy zhurnal, Geofizika, no. 4, 1962, 23, abstract 4B154 (V sb. Aktinometriya i atmosfern. optika,

L., Gidrometeoizdat, 1961, 252-260)

TEXT: The light field is calculated by V. V. Sobolev's method in the deep layers of a turbid medium with a dispersion indicatrix, obtained by A. A. Gershun from observations, for different values of the parameter: $\lambda = \sigma/(\sigma + X)$, where σ and X are the volumetric coefficients of scattering and absorption. The results are compared with the solution, obtained by means of numerically integrating the Ambarzumian equation. It follows from the cited data that the closer the parameter of λ is to unity, the smaller the number of terms in the resolution of the scattering indicatrix according to the Lejandre polynomials that have to be taken in analogous

Card 1/2

ENT(1)/FCC L 5434-66

ACC NR: AT5026208

SOURCE CODE: UR/2703/65/000/328/0072/0082

B+1

ORG: Astronomical Observatory, Loningrad State University (Astronomicheskaya observatoriya, Leningradskiy gosudarstvennyy universitet)

TITLE: On the calculation of spectral albedo of deep bodies of water

SOURCE: Leningrad. Universitet. Uchenyye zapiski, no. 328, 1965. Seriya matematicheskikh nauk, no. 39. Trudy Astronomicheskoy observatorii, v. 22, 72-82

TOPIC TAGS: optic albedo, bolar radiation, water, light reflection, light refraction

ABSTRACT: The derivation of theoretical formulas for the albedo of the surface of a body of water is presented to relieve the paucity of experimental data for this quantity. The well known formula of Fresnel in this connection is accurate only if the flux of radiation scattered from the depths of the body is small in comparison with the flux reflected directly from the surface. This condition is seldom met, especially for large angles of solar elevation h and high turbidity

Card 1/4

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1. 5434-65

ACC NR: AT5026208

of the water. The albedo is correctly given by an expression of the form A_{λ} (θ_0) = $A_{1\lambda}$ (θ_0) + A_2 (θ_0). (θ_0 is the angle of incidence, λ is the wavelength of the incident radiation.) The first term is given by Fresnel's formula and the method of V. V. Sobolev (Perenos luchistoy energii v atmosferakh zvezd i planet. M, GITTL, 1956) is employed to get the correction $A_{2\lambda}$ (θ_0). Tables have been prepared showing dependence of albedo on the optical characteristics of the water. For a smooth water surface, values of $A_{2\lambda}$ (θ_0) in the region of the visible spectrum from $\lambda = 4800$ Å to $\lambda = 6100$ Å (at various values of h) are presented in Table 1. Since recent experimental determinations of spectral albedo are lacking, the same method of Sobolev is used to calculate values of the spectral luminance, and these results are compared with the data of I. V. Semenchenko and A. V. Snytkin (Okeanologiya, 1961, vyp. 5). Good agreement is obtained.

Card 2/4

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651420003-9

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ACC NR: AT5026208	x1	h⊙, °	0.5	0.6	0.7	0.8	0.9	
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	1.0	10 30 50 70 90	3.2 4.1 3.7 3.3 3.2	4.5 5.9 5.3 4.9 4.7	6.4 8.5 7.9 7.3 7.0	9.4 12.7 12.0 11.2 10.9	15.4 21.2 20.5 19.5 19.2	
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ACC. NR: AT5026208

from card 3/4

Table 1. Anomalous spectral albedo $(A_{2\lambda}(\Theta_0))$ as a function of solar angle of elevation h_{Θ} , specific scattering coefficient $\Lambda(\Lambda = \sigma/(\sigma + \kappa))$, where σ is the volume scattering coefficient and κ is the volume absorption coefficient), and a parameter κ_1 which measures the anisotropy of the volume angle-dependent scattering cross section

Orig. art. has: 28 formulas, 4 tables, and 1 graph.

SUB CODE: 55, OP/SUBM DATE: none/ ORIG REF: 009/ OTH REF: 001

Card 4/4

GROSS, S.A.; SARYMENTKOV, A.S.; SUNDYUKOV, V.S.; SIMUSALIV, S.P.; SHUKYGIN, I.G.

Some results of the acceleration of filling and discharge operations on the Tuapse tank farm. Transp. i khran. nefti i nefteprod. no.9:28-30 (MIRAL7:10)

1. Krasnodarskiy politekhnicheskiy institut i Tuapsinskaya perevalochnaya noftebaza.

SLYUSAREV, T.V.; ORLENKO, V.Ye.

Crops for a winter green fodder plan. Zhivotnovodstvo 23 no.7:55 Jl '61. (MIRA 16:2)

1. Direktor Dinskogo ptitsesovkhoza, Krasnodarskogo kraya (for Slyusarev). 2. Glavnyy agronom Dinskogo ptitsesovkhoza, Krasnodarskogo kraya (for Orlenko).

(Poultry-Feeding and feeds)

Hodernized vibration screen for plantering mines. Stroitel' no.7:19 J1 '59. (MIRA 12:10) (Planter)

L 16448-65 EWT(1) IJP(c)/AFWL/ASD(a)-5/AFETR

ACCESSION NR: AP4042036

S/0126/64/017/006/0801/0808

AUTHOR: Svidzinskiy, A. V.; Slyusarev, V. A.

TITLE: Method of quasiaverages in the theory of Fermi systems with a nonzero orbital pair momentum

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 6, 1964, 801-808

TOPIC TAGS: Fermi system, pair condensation, orbital pair momentum, quasiaverage, statistical mechanics, theory

ABSTRACT: The authors show that on the basis of the principle of reduced correlation it is possible to obtain information about the structure of the condensate in the superconducting Fermi surfaces. By using the method of quasiaverages (N. N. Bogolyubov, Quasi-averages in statistical mechanics, preprint OFIA, D-781, Dubna, 1961) an assymptotically rigorous solution is given for a model Fermi system by considering the possibility of pair formation with a definite, different from zero, orbital momentum. Both the singlet and the triplet

Card 1/2

L 16448-65

ACCESSION NR: AP4042036

pair states are considered. Orig. art. has: 33 equations

ASSOCIATION: Fiziko-tekhnicheskiy institut nizhikh temperatur AN UkrSSR (Phy-

sical-Technical Institute of Low temperatures AN UkrSSR)

SUBMITTED: 12Aug63

ENCL: 00

SUB CODE: NP

NO REF SOV: 011

OTHER: 006

Card 2/2

.... (5) SOURCE CODE: 0::/0004/00/004/004/11/29/12/30 We say Williams

ACTION: Syldzinsky, A. V.; Slyusarev, V. A.

TITIE: The theory of tunnelling in superconductors -

SOURCE: Ref. zh. Fizika, Abs. 6E1010

REF SOURCE: Fiz.-tekhn. in-t nizk temperatur AN USSR. Khartkov, 1965, 15 str.

TOPIC TAGS: tunnel current, superconductor, kinetic equation, phase partial differential equation, boundary condition, tunnelling, superconductor tunnelling

ATISTRACT: The value of a tunnel current in a system of two superconductors separated by an insulating layer is calculated. The calculation is carried out within the framework of a model described by a tunnel Hamiltonian. The new results of the work are as follows: 1) clarification of the occurrence of a coherent phase shift in tunnelling in a system of coupled superconductors; 2) the application to the tunnelling problem of the method of kinetic equations, which makes it possible to give a general calculation of the tunnel current which is valid also for the case of a variable shift at the barrier; 3) the need to correct the computa-

_Card 1/2

L 04230-67 EWT(1) IJP(c) AR6031896

SOURCE CODE: UR/0058/66/000/006/E130/E130

AUTHOR: Ivanchenko, Yu. M.; Svidzinskiy, A. V.; Slyusarev.

TITLE: Electrodynamics of the Josephson effect

SOURCE: Ref. zh. Fizika, Abs. 6E1011

REF SOURCE: Fiz. -tekhn. in-t nizk. temperatur, Donetskiy fiz. -tekhn. in-t AN USSR. Khar'kov-Donetsk, 1966, 14 str.

TOPIC TAGS: electrodynamics, superconductive tunnelling, tunnel effect, Josephson effect

ABSTRACT: The electrodynamics of superconductive tunnelling at small voltages and during slowly varying processes is investigated. A theory on the voltampere characteristics of such tunnelling is evolved. The experimental data are in good agreement with the theoretical results. [Translation of abstract]

SUB CODE: 11, 09/

Cord 1/1 stal

" AATIC-AL ACC NRI AP6024878 superconductor, the tunneling time, and the time of variation of the barrier voltage. Arguments are presented to show that the premise that the nonlinear Josephson effect occurs at constant voltage on the barrier is incorrect. In fact, the analysis shows that the occurrence of the alternating current is a consequence of a nonlinear element in the electric circuit. The difference between the dc and ac Josephson currents is shown to be due to the fact that the dc is in equilibrium and the ac is not. It is concluded that to construct a complete theory of the phenomena occurring during tunneling it is necessary to take into consideration the existence in the circuit of reactive elements and of the magnetic field, including the self field of the current flowing through the junctions. This will be treated in a separate paper. Orig. art. has: 20 formulas. SUB CODE: 20/ SUBM DATE: 04 Jan 66/ ORIG REF: 003/ OTH REF:

L 08173- ACC NR: art. has:									
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Card 2/2					

KONDAUMOV, D.I., starshiy nauchmyy sotrudnik; SLTUSARRV, V.I., starshiy nauchmyy sotrudnik

Plant corn with wide-range units. Mekh.sil'hosp. 10 no.2:
8-10 F'59. (MIRA 12:6)

1. Kubans'kiy naukovo-doslidniy institut viprobovannya traktoriv i sil'skogospodars'kikh mashin.
(Planters (Agricultural machinery))
(Corn (Maise))

Over-all mechanization of corn harvesting. Tekh.v sel'khoz. 19 no.5:10-13 My '59. (AIRA 12:7)

1. Kubanskiy nauchno-issledovatel skiy institut ispytaniy traktorov i sel skokhozwaystvennykh mashin.

(Corn(Maize)--Harvesting)

SLYEDATER, T. T.

P+ 811

Growing pecans in the southern districts. Les i step! No. 3, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

AUTHORS:

SLYUSHALLH. A Gekker, R.F., Osipova, A.I., Slyusareva, A.D.

5-6-42/42

TITLE:

Kazan' Sea of the Russian Plateau and Its Fauna (Kazans-

koye more russkoy platformy i yego fauna)

PERIODICAL:

Byulleten' Moskovskogo Obshchestva Ispytateley Prirody,

Otdel Geologicheskiy, 1957, # 6, pp 153-155 (USSR)

ABSTRACT:

The investigation performed by the Paleoecology Laboratory of the Paleontological Institute of the USSR Academy of Sciences represents a partial result of studying the Late-Permian sea and its fauna on the territory of the Russian plateau. It is at the same time a part of paleoecological and philogenetic investigations of the fauna of all Paleozoic seas which covered once the Russian plateau.

The authors describe various species of the fauna discovered, among which representatives of the genera Productus,

Permospirifer and Licharewia occurred most often.

AVAILABLE:

Library of Congress

Card 1/1

SLYUSAREVA, A. D.: Master Biol Sci (diss) -- "The genera Licharevia and Permospirifer in the Kazan depression of the Russian platform, and their living conditions". Moscow, 1958, published by the Acad Sci USSR. 16 pp (Acad Sci USSR, Paleontological Inst), 185 copies (KL, No 5, 1959, 147)

OSIPOVA, A.I.; SLYUSAREVA, A.D.

Kazanian sediments in Pinega and Kuloy Valleys and their correlation with sediments in the Vyatka Uval and Volga-Kama area. Izv. vys. ucheb. zav.; geol. i razv. 1 no.8:15-29 Ag '58. (MIRA 12:9)

1. Palcontologicheskiy institut AN SSSR. (Russian Platform-Geology, Stratigraphic)

Carry of the Var M. D.

AUTHOR:

Slyusareva, A. D.

20-3-47/59

TITLE:

On the Spirifers of the Kasan' Stratum

(O kazanskikh spiriferakh)

PERIODICAL:

Doklady AN SSSR, 1958, Vol. 118, Nr 3, pp. 581-583 (USSR)

ABSTRACT:

More than 200 invertebrate remains from the Kazanskiy stratum of the Russian Platform were known already in 1894 (reference 4). In the lower Kazanskiy stratum spirifers (Brachiopoda) from the sub-species Licharewinae are particularly numerous. N. N. Forsh (references 7, 8) used the species composition of the spirifers as a main discriminant feature with respect to the fauna for his classification of the stratum. The determination of the species of Licharewinae, however, is very difficult, and several authors plead for a unification of some species. (references 3, 10). The author studied the species of this sub-species from the Volga-Kama district and from the Northern Severnyy kray district (the rivers Pinega and Kuloy) and found, that the shape of the shell, the shape and height of the area and the contour of the sinus may

Card 1/4

On the Spirifors of the Kasan' Stratum

20-3-47/59

Kazanskiy waters, where a most normal marine regime was predominant. The variability of Licharewia rugulata, which is represented in all layers of the lower Kazanskiy sediments, may vary locally and is mainly dependent upon its salt content. The more the salt content deviates from the normal marine value, the greater is the variability. Also the type of ground and the mobility of the water effect a number of morphological differences, because the animals had to fasten themselves better. In Severnyy kray (Northern area) the Permospirifer species are numerous in the lowest part. In the middle part Licharewiinae are rare, the species of the class Blasispirifer are most numerous. Therefore not only the qualitative, but also the quantitative conditions of the occurrence of spirifers show a different configuration. During the period of maximum transgression and of optimum connection with the open sea the Licharewia species were the most numerous in the Volga-Kama district. The mobility of the water, and with it the supply of fresh air were considerable here, and therefore the population was dense. From this results the great number of irregularly developed shells caused by the

Card 3/4

On the Spirifers of the Kasan' Stratum

20-3-47/59

compactness. When the expanse of water diminished and the connection with the open sea became more difficult, the most markedly stenohaline species vanished. Licharcwia species often turned into diminutive forms, which may be connected with the lowered salt content. The species Licharewia rugulata (Kut.), which was most widely distributed, may be supposed to constitute the initial form of the other Licharewia species on the one hand and of the Permospirifer species on the other hand. There are lo references, all of which are Slavic.

PRESENTED:

September 16, 1957, by D. V. Nalivkin, Academician

SUBMITTED:

September 10, 1957

AVAILABLE:

Library of Congress

Card 4/4

- "HOH: Clymmareva, A. D. 507/20-122-1-35/44 " Fara: The Genera Licharewia Finor and Permospiriter Fullkov in the Fazan Sea of the Russian Platform (Rody Licharewia Siner 1 formospiriter Kulikov v Kazanskom more Russkoy platformy) FRRIOD C L: Toktady Akademii nauk SSSR, 1958, Vol 122, Nr 1, pp 127-150 (distributed) 4B Ln4CD: By far not all paleontologists approve of the existence of two genera of the Kazanskiye (Upper Fermian) Spirifers with a smooth sinus. The author investigated the inner structure of these genera by the method of series sections and found new features which draw a border line between the genera mentioned in the title. They are described in the present paper. A. V. Nechayev (Ref 7) divided the Kazanskiye Spirifer species described by him into & groups, for this purpose ne used mainly external features of the shell. In 1959 (Ref 8) O. L. Eynor separated a new genus signarewin of the genus Opirifer together with the typical species C. stackenvergi Netsch. and compared them with the Kazanskive Spirifer species of all 3 mentioned groups. Based upon the investigation of the inner structure of the same Card 1/4 Spirifer groups M. V. Kulikov set up a further subgenus Permo-

The Genera Ercharewin binor and Permonpirifer Kolikov in the Kazan Sea of the Rossian Platform

spirifer (Ref 3). According to the latter author the main difference in comparing them with Licharewia is a peculiar formation of the "area". Kulikov classified one of the initially mentioned groups, e.g. S. keyserlingi group among the latter subgenus. Comprehensive informations were collected by the Fermskiy paleoekologicheskiy otryad (Faleoecological Department for the rermian) of the institute mentioned in the association under the supervision of P. F. Gekker in the Volga-Kama region and in the Severnyy kray in the years 1955-1956. Sections were made and the mentioned informations were used for an investigation of the external and internal structure. One of the problems to be solved was the difference between the internal structure of Permospiriter and Licharewia. Detailed descriptions of both groups (now as genera) are given (Fig 1). Licharewia is known in the Russkaya Flatform, in the catchment arens of the rivers Volga and Kame as well as in single individuals in the North of the European part of the $\langle \text{No} \rangle \widetilde{R}$ and of the Kolyma river. The representatives of this genus appeared in a particularly high number in the southern parts of the

SLYUSAREVA, Aleksandra Dmitriyevna; GEKKER, R.F., otv.red.; MOROZOVA, I.P., red.izd-va; YEGOROVA, N.F., tekhn.red.

[Spiriferids from the Kazan stage of the Russian Platform and the conditions governing their existence; the genera Licharevia Einor and Permospirifer Kulikov] Spiriferidy Kazanskogo iarusa Russkoi platformy i usloviia ikh sushchestovaniia (rody Licharevia Russkoi platformy i usloviia ikh sushchestovaniia (rody Licharevia Finor i Permsopirifer Kulikov). Moskva, Izd-vo Akadenauk SSSR, Einor i Permsopirifer Kulikov). Moskva, Izd-vo Akadenauk SSSR, Einor i Permsopirifer Kulikov). (MIRA 14:2) Trudy, vol. 80)

(Russian Platform—Brachiopoda, Fossil)

SLYUSAREVA, A.D.

(Russian Platform -Brachipoda, Fossil)

Results of hydrebiological observations on some Donets Basin reservoirs. Trudy probl. 1 tem. soveshch. ne.2:56-59 '54. (MIRA 8:5) (Donets Basin--Fresh-water biology) (Donets Basin--Reservoirs)

Results of observations of flera in the Karlovka water reservoir. Vod.i san.tekh.mo.3:23-25 Mr 156. (Karlovka--Reserveirs) (Fresh-water flera)

SLYUSAREVA, A.I.

Biological fouling and plankton of the Northern Donets-Ponets Basin Canal according to the data of the first years of its use (1959-1960). Trudy Cidrobiol. ob-va 14:130-136 '53. (MIRA 17:6)

1. TSentral naya laboratoriya Donbasavodtresta, Donetsk.

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1	AUTHOR:	Minte, R. I., Candidate of Technical Sciences		
)		All Union Scientific-Technical Seminar on Improving the Cavitation Resistance of Components, Sverdievak		
ر ہـــ	PERIODICAL	: Metallovedeniye i termicheskaya ebrabotka metallov, 1960, Nr 6, pp 58-60 (USSR)		
: £	ABSTRACT	The seminar was held at the initiative of the Problems Laboratory for Mutallurgy at the <u>Ural Polytechnical</u> Institute imeni S. M. Eirev jointly with ether		
		organizations. In the seminar representatives of research establishments and works from Sverdlevek, Perm's Chelyabinok, Barnawi, Ger'kiy, Odesse.		
		Leningrai, Yerevan, Murmanak, Rhar'kav and other places participated. This report gives brief summaries		
		of the following papers which were read: G. D. Ter-Akopov, Candidate of Technical Sciences, "Cavitation failures in hydraulic turbines";		<u> </u>
)		L. I. Pomarskiy, Engineer, "Cavitation in hydraulic turbines"; M. I. Kurssevich, Engineer, "Cavitation		
	Card 1/2	feilures in runners of centrifugal pumps"; Marinim, A.A. Engineer, "Cavitation failures in marine propellers";	<i>Y</i> .	
		N. N. Ivanchenko, Candidate of Technical Sciences, "Cavitation failures in dissel engines"; A.P.Chervyakoy,		
•		Engineer, "Increase of the cavitation-eresion stability of jacket and cylinder liners of the dissel engines Do and D12"; I.M. Bogschev, Dottor of Technical Sciences.		
4.		"Mechanism of the cavitation failure of metallic alleys and principle for the selection of such alloys":		
		R.I. Mints, Candidate of Technical Sciences, "Combatting cavitation failure by using surface-active additions to the liquid phase of closed systems"; R.Sh. Shklyar.	•	
		Candidate of Technical Sciences, D.D.Siyunaraya, Engineer and N.N.Syntkin, Engineer, "Structural changes in the	r.	
1		initial stages of cavitation failure"; T.M.Petuhhova, Engineer, "Influence of the structure on the resistance		
		to cavitation of bronse"; Y. V. Gavranck, Candidate of Technical Sciences and D.N. Bolleintking, Engineer, "Cavitation egosion of metale, thermal and mechanical		
	Card 2/2	offects in the cavitation zone".	(a)	
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SLYUS AREVAITE

137-58-5-11150

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5. p 321 (USSR)

AUTHORS Tarasov, N. Ya., Bogdanov, T.G., Slyusareva, F.G.

TITLE: A High-speed Photocolorimetric Method Determines Phosphorus Content of Steel by Employing Isoamyl Alcohol for Extraction of the Phosphorus-molybdenum Complex (Ob ekspressnom fotokolorimetricheskom metode opredeleniya soderzhaniya fosfora v stali s izvlecheniyem izoamilovym spirtom fosforno-molibdenovogo kompleksa)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii. Ukr. resp. pravl., 1956, Vol 4, pp 104-106. Comments, p 107

A high-speed photocolorimetric method was developed whereby the P content of steel is determined by means of extraction of the P-Mo complex with the aid of isoamyl alcohol. 0.5 g of steel is dissolved in 20 cc of HNO3 (1:1); after adding 5 cc of a 1.5% KMnO4 solution, the mixture is boiled until the precipitation of MnO2; the latter is subsequently decomposed by heating in 5 cc of a 5% solution of H₂C₂O₄. After cooling, the solution is transferred into a 100-cc flask, and H₂O is added to a predetermined level. 2 cc of the solution being analyzed and 3 cc of isoamyl

tion is diluted with H₂O to a volume of 1 liter and is then filtered; a stream of CO₂ is passed through it for a period of 10 minutes. The solution is preserved under CO₂. Before using, the solution is diluted (1:1) with water and placed where CO₂. Before using, the solution is diluted (1:1) with water and placed under CO₂. Before using, the solution is diluted (1:1) with water and placed under a layer of transformer oil 1-2 cm APPROVED FOR RELIEASE 1825/250 photomia RDP86w00513R001651420003-9" red light filter.

K. K.

1. Phosphorus--Determination 2. Stecl--Analysis 3. Alcohols--Applications

4. Colorimetry--Applications

Card 2/2

899112 5/126/61/011/001/009/019 E111/E452 18 8260 Bogachev, I.N., Shklyar, R.Sh., Slyusareva **AUTHORS:** Mints, R.I. and Syutkin, N.N. Change in Structure and Phase Composition of Some TITLE: Austenitic Steels in the Initial Stages of Cavitation Failure_ PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.11, No.1, pp.86-93 Bogachev and Mints have previously shown that the resistance to cavitation of austenitic nickel manganese Achromiumnickel and chromium-manganese steels varies greatly (Ref.1). The object of the present work was to study structural changes during cavitation failure in the surface layers of the austenitic steels of the following types and compositions (%): <u>Cr</u> Ni 18.05 1Kh18N8 (1X1848 30G10Kh9, 3c 7 10X9 : 5 0.92 8.39 0.12 9.117 10.30 0.13 0.31 40N25 (16 40 H 25 80G14 BOC14 0.13 0.20 0.40 25.00 0.40 1.10 14.50 0.81 80G14 1/5 18.

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S/126/61/011/001/009/019 E111/E452

Change in Structure and Phase Composition of Some Austenitic Steels in the Initial Stages of Cavitation Failure

Specimens were plunged in water after holding for 30 minutes at After removal of the outer layers, specimens were 1050°C. subjected to the cavitation action of a magnetostriction vibrator for 5, 10, 15 and more minutes. Phase composition changes were qualitatively determined from X-ray patterns obtained from a Structural changes were determined from polished section. interference-line width and also changes in shape and dimensions of The back-reflection camera provided three individual spots. images of the same interference ring on one film at different Spot dimensions were measured on all specimen-film distances. rings in tangential and radial directions with the aid of a Patterns were obtained from the type M3A -2 (IZA-2) comparator. Line width same part of a given specimen after various treatments. was measured on patterns obtained separately in chromium radiation with rotation of both specimen and film. Two of the steels were also studied electron-microscopically before and after testing for 5 and 10 minutes. The work showed that the austenite lines obtained exclusively from all specimens before testing were Card 2/5

S/126/61/011/001/009/019 E111/E452

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Change in Structure and Phase Composition of Some Austenitic Steels in the Initial Stages of Cavitation Failure

supplemented in three of the steels by other lines after testing. The transformation of austenite was different in two steels: in in type type 1x18M8 (1Kh18N8) the alpha-phase was formed; 30Pl0X9 (30Gl0Kh9) epsilon-phase was formed as well. This was confirmed in the electron photomicrographs. In type 40M25 (40N25) steel the transformation was similar to that in 1Kh18N8 but slower, while in 80p14 (80G14) only austenite lines were found Interference spots even after prolonged specimen treatment. generally survived specimen treatment and spot changes were The situation is qualitatively similar in all four steels. represented by the authors in terms of changes in the disorientation angle for individual crystals. In Fig.5, this angle (minutes) is plotted against treatment time (minutes) for various crystals of 40N25 (plot "a") and 80G14 (plot "b") steels. For all the steels the width of the (311) B line increased in the first stages of treatment and then became steady. photometric curve of the (311) a line dimensions of mosaic blocks and II type disturbances were found (as in Ref.2): Card 3/5

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S/126/61/011/001/009/019 E111/E452

Change in Structure and Phase Composition of Some Austenitic Steels in the Initial Stages of Cavitation Failure

few minutes the former decrease rapidly and the latter increase; the intensity of these effects being different for the different steels. The authors conclude that resistance to cavitation disruption rises when tetragonal martensite, epsilon phase and fine carbides are liberated within the austenite grain; resistance falls when alpha-phase (low in carbon) is liberated either within or around the grain. There are 7 figures, 2 tables and 3 Soviet references.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S.M.Kirova (Ural Polytechnical Institute imeni S.M.Kirov)

SUBMITTED: April 4, 1960

Card 4/5

5/032/62/028/006/009/025 B101/B138

Ponelintseva, A. F., Rakov, N. A., and Slyusareva, L. P.

Spectrochemical determination of boron traces in highly pure AUTHORS:

Bilicon tetrachloride TITLE:

Zavodskaya laboratoriya, v. 28, no. 6, 1962, 677 - 678

TEXT: A method is described for concentrating boron traces in highly pure SiCl₄, based on the formation of the nonvolatile and insoluble complex compound (C6H5)3CCl+BCl in the presence of triphenyl chloro methane. 8 ml of the SiCl₄ sample with 2 mg triphenyl chloro methane, and 40 mg carbon powder which is spectrally pure with regard to boron, are mixed at dry-ice temperature for 1 hr. SiCl₄ is then evaporated in N₂ at 45 - 50°C and dried below 100°C (as the complex begins to decompose at 150°C). The sample is placed in the cavity of a carbon electrode which is spectrally pure with regard to boron. The recording is made with an NCN-28 (ISP-28) spectrophotometer in a d.c. arc, the sample connected as anode being

Card 1/2

SLYUSAREVA, M.N.

New mineral "uklonskovit." Dokl. AN SEER 158 no.5:1093-1095 0 164. (MIRA 17:10)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov UZSSR. Predstavleno akademikom N.V.Belovym.

ACC NR. AP6032525 (A) SOURCE CODE: UR/O413/66/000/017/0123/0123

INVENTOR: Gil'man, L. M.; Sprude, I. K.; Slyusareva, N. G.

ORG: none

TITLE: Ball regulator for the flow of fluid. Class 47, No. 185646

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 123

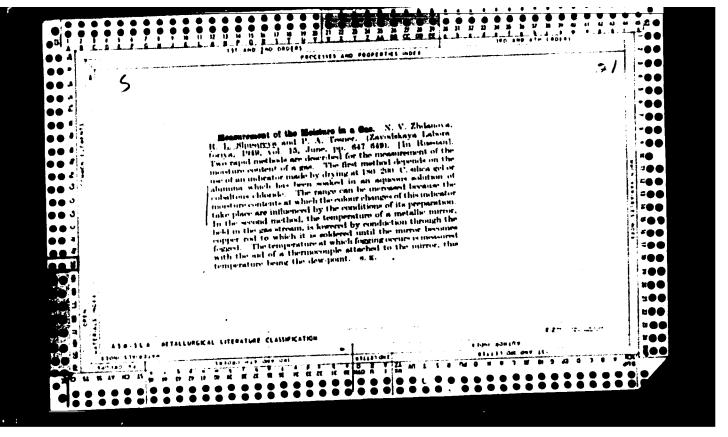
TOPIC TACS: fluid mechanics, fluid dynamics, fluid flow, flow control, fluid flow regulator, place laboratory natural.

ABSTRACT: A variation of the ball regulator for fluid flows described in Author Certificate No. 15h120 is introduced. In order to maintain a given static pressure

Fig. 1. Flow regulator

1 - Ball; 2 - auxiliary valve; 3 - servodrive.

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KARABASH, A.G.; PAYZULAYEV, Sh.I.; SLTUSAREVA, R.L.; SOTHIKOVA, H.P.;
SHIRKOVA-AVERHA, H.I.; SANCHOVA, Z.R.; RIAUZ, L.S.; MOROZOVA, G.G.;
ROMANOVICH, L.S.; SHIRBMINA, I.I.; LIPATOVA; V.M.; SAZAKOVA, S.K.;
PUGACHEVA, L.I.; USACHEVA; V.P.; VOROROVA, Y.P.P.; GORBACKEV, P.D.;
KOSTAHEVA, P.A.; KOSTAHEVA, N.T.; YELGVATSKAYA, A.Y.; KUZNETSOVA, N.H.

Spectrochemical analysis of pure metals for impurities. Fiz.
shor. no.4:556-562 *58. (MIRA 12:5)

(Spectrochemistry)
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5(2), 5(4)SOV/75-14-1-19/32 Karabash, A. G., Peyzulayev, Sh. I., AUTHORS: Slyusareva, R. L., Lipatova, V. M. A Chemico-Spectrographic Method for the Analysis of Metallic TITLE: Beryllium and Beryllium Oxide of High Purity (Khimikospektral'nyy metod analiza metallicheskogo berilliya i okisi berilliya vysokoy chistoty) Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 1, pp 94-99 PERIODICAL: (USSR) The spectrochemical method described in the present paper ABSTRACT: permits the simultaneous determination of the following 24 impurities in metallic beryllium and beryllium oxide: Mg, Ca, Ba, Al, Ti, V, Cr, Mo, Mn, Fe, Co, Ni, Cu, Ag, Zn, Cd, 3e, Pb, Sb, Bi, Ga, In, Tl, Te. The determination of Na was carried out separately in a glass spectrograph. For the enrichment of admixtures beryllium was extracted in form of its basic acetate Be₄0(CH₃COO)₆ with chloroform. This basic beryllium compound is satisfactorily resistant against the action of many organic reagents (water, hydrochloric acid) and easily soluble in organic solvents. Solubility in chloroform amounts Card 1/3

A Chemico-Spectrographic Method for the Analysis SOV/75-14-1-19/32 of Metallic Beryllium and Beryllium Oxide of High Purity

to 50g in 100 ml CHCl₃, whereas the acetates of the admixtures to be determined are practically insoluble in chloroform. The chloroform extract is three times washed with hydrochloric acid, and the admixtures, together with a small quantity of Be $(\sim 1/20$ of the initial quantity) pass quantitatively into the solution of hydrochloric acid. In this way the admixtures are enriched 20 - 25-fold. By this enrichment the sensitivity of admixture determination is increased from 10^{-3} - $10^{-4}\%$ (without enrichment) to 10^{-4} - $10^{-5}\%$. The lines used for the spectral-analytical determination of the 24 admixtures and of sodium are shown in a table. The main quantity in the concentrate is Be₂0₃. By means of a special process, which is described in detail in this paper, the authors conveyed the beryllium oxide into a glass-like modification (hexagonal crystal lattice of the Wurtzite type), which differs from normal Be₂0₃ by its much smaller crystals. This modification permits an increase of the weighed in portion and thus also an increase of the sensitivity of determination. The corresponding investigations of X-ray structure were carried out

Card 2/3

A Chemico-Spectrographic Method for the Analysis SOV/75-14-1-19/32 of Metallic Beryllium and Beryllium Oxide of High Purity

by Ye. S. Makarov. The exactness and reproducibility of the elaborated method was tested on the basis of 25 artificial mixtures, and also by comparison with results obtained by chemical methods of determination. The relative error of chemical methods of determination. The relative error of sensitivity limit of the method the error attains values of sensitivity limit of the method the error attains values of sensitivity limit of the method may be used for the determination of cadmium. The method may be used for the determination of cadmium of a high degree of purity. analytical control of beryllium of a high degree of purity. Also a method for the spectroanalytical determination of samples without enrichment of admixtures was worked out which ples without enrichment of admixtures was worked out which may serve for the control of technical products (accuracy may serve for the control of technical products (accuracy is very accurately described in the paper. There are 2 is very accurately described in the paper. There are 2 is very accurately described in the paper.

SUBMITTED:

October 28, 1957

Card 3/3

EARABASH, A.G.; PETZULAYEV, Sh.I.; SLYUSAREVA, R.L.; LIPATOVA, V.M.

Determination of impurities in beryllium and beryllium oxide. Trudy

(MIRA 13:8)

(Beryllium—Analysis)

PENZULAYEV. Sh.I., POPOWA, L.E., SIXUSAREVA, R.L.

Spectrum analysis for the determination of traces of impurities in organic compounds. Zav.lab. 26 no.5:552-553 *60.

(NIRA 13:7)

(Organic compounds) (Trace elements--Spectra)

JD/JG UR/0032/65/031/005/0557/0559 EWI(m)/EWP(t)/EWP(b) IJP(c) L 54007-65 543.42 : 546.641 ACCESSION NR: AP5012491 20 19 AUTHORS: Slyusareva, R. L.; Kondrat'yeva, L. I.; Poyzulayev, Sh. I. B TITLE: Chemical-spectral analysis of yttrium and its oxide for impurities SOURCE: Zavodskaya laboratoriya, v. 31, no. 5, 1965, 557-559 TOPIC TAGS: yttrium, chemical analysis, spectrography, tributyl phosphate ABSTRACT: Two variants of a chemical-spectral method of analyzing yttrium have been developed: one with preliminary concentration of the impurities, and the second by direct spectral analysis without concentration. Concentration is effected by separation of the yttrium with undiluted tributyl phosphate from a nitric acid solution . (13N HNO3). In this process about 95% of the yttrium goes into the organic phase. The impurity distribution between aqueous and organic phases is tested on an artificial mixture of salts, and this is analyzed for both aqueous and organic phases. It was found that MG, Ca, Fe, Cr, Co, Ni, Zn, Cd, Cu, Mn, Sn, Pb, Sb, Bi, and Ta are concentrated chierly in the aqueous phase. Standards were prepared with Y203. Altogether, 20 elemental impurities were determined spectrographically. These are Card 1/2

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CESSION NR: AP5012	:491	hod of complete combus s, and fractional evap	Lian was OND	1.oved	to de	termine
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SLTUSAREVA-IL'INA, A.I.

Formulas for designing three-lense cemented objectives. Opt.-mekh.

(MIRA 11:10)

prom. 25 no.4:11-13 Ap '58.

(Lenses)

SLYUSAREVSKIY, A.Ya., brigadir

Reinforcing the insulation of lightning arresters. Elek.i topl. tiaga 5 no.12:22-23 D '61. (MIRA 15:1)

1. Tumpuinskaya distantsiya kontaktnoy seti Severo-Kavkazskoy dorogi.

(Lightning protection)

BURAVLEV, T.T.; SLYUSAROV, I.T.

Precipitation of red sludge from the aluminate solution by the Bayer method. Zhur. prikl. khim. 33 no.12:2627-2632 D '60.

(MIRA 14:1)

1. Zaporozhskiy mashinostroitelinyy institut.
(Alumina) (Bauxite)

URAZOVSKIY, S.S.; SLYUSAROV, I.T.

Conformational transformations of macromolecules in solutions.

Part 1: Conformational transformations of pelymethacrylic acid.

Vysokom.soed. 3 no.3:420-425 Mr '61. (MIRA 14:6)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenira.
(Methacrylic acid) (Macromolecular compounds)

5.4100

36235 s/190/62/004/004/001/019 B119/B138

..UTHORS:

Slyusarov, J. T., Urazovskiy, S. S. (Deceased)

TITLE:

Study of conformational transformations of macromolecules in solution. III. Conformational transformations of 2-vinyl

pyridine - methacrylic acid copolymer

FERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 481-485

TEXT: The authors studied the temperature dependence of the viscosity, electrical conductivity, and hydrogen ion concentration of dilute solutions of 2-vinyl pyridine - methacrylic acid copolymer between 20 and 60°C. Copolymer composition: 61.3% 2-vinyl pyridine, 38.7% methacrylic acid, corresponding to 3 basic and 2 acid groups per 10 carbon chain atoms. Solvent: water in the pH range below 3.60 and above 6.66; water-methanol (1:9) or dimethyl formamide at pH 3.60 - 6.66 (in this range, the copolymer is insoluble in water). Concentration of solutions: 0.05 - 1.0 g/deciliter. Results: At constant temperature, the specific viscosity of the solutions shows maxima at the neutralization points of the basic and again groups; it falls to a minimum at the isoelectric point. Up to 40°C,

Card 1/2

5/190/62/004/004/001/019

Study of conformational transformations ... B119/B138

the specific viscosity of the aqueous solutions falls steadily, both in the acid and alkaline ranges; it increases noticeably up to 45° C, and decreases again on further increase in temperature. With solutions in methanol or dimethyl formamide there is a steady decrease in specific viscosity with rising temperature. The aqueous solutions show a considerable increase in hydrogen ion concentration and electrical conductivity at 40° C. These phenomena are attributed to conformational transformations at 40° C, suring which the intra- and intermolecular association forms are changed with participation of H₂O. There are 5 figures. The most important English-language reference is: T. Alfrey, H. Morawetz, J. Amer. Chem. Soc., 74, 436, 1952.

ABJOCIATION: Zaporozhskiy mashinostroitel'nyy institut im. V. Ya.

Chubarya (Zaporozh'ye Machine-Building Institute imeni V. Ya.

Chubar!)

SUBMITTED: January 26, 1961

Card 2/2

X

SLYUSAROV, I.T

On conformational transformations of polymethacrylic acid. Vysokom.soed, 4 no.4:618 620 Ap 162 (MIRA 15:5)

1. Zaporozhskiy mashinostroitel nyy institut imeni $V_{\rm c}$ Ya. Ghubarya.

(Methacrylic acid)
(Macromelecular compounds)

11637 S/073/62/028/006/001/002 D202/D307

AUTHORS:

Urazevskiy, S.S., Deceased and Slyusarov, I.T.

TITLE:

Conformational changes of polyvinylpyridine (PVP)

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, v. 23, no. 6, 1962,

669-672

TEXT: The temperature dependences of specific viscosity (1), electrical conductance and hydrogen ion concentration were studied in partially neutralized aqueous solutions of polyvinyl pyridine, in an effort to elucidate the conformational transformations of macromolecular polymers containing basic functional groups. The concentration of PVP was varied between 0.05 and 2 g/dl, and the above-mentioned properties were measured in the temperature range of 20 - 60°C; the temperature dependence of the specific viscosity in methanolic solutions was also studied between 20 and 50°C. The plots of these properties consisted of two linear portions with a distinct break at ~ 35°C, which gradually disappeared with increasing degree of ionization. No such discontinuity was observed in

Card 1/2